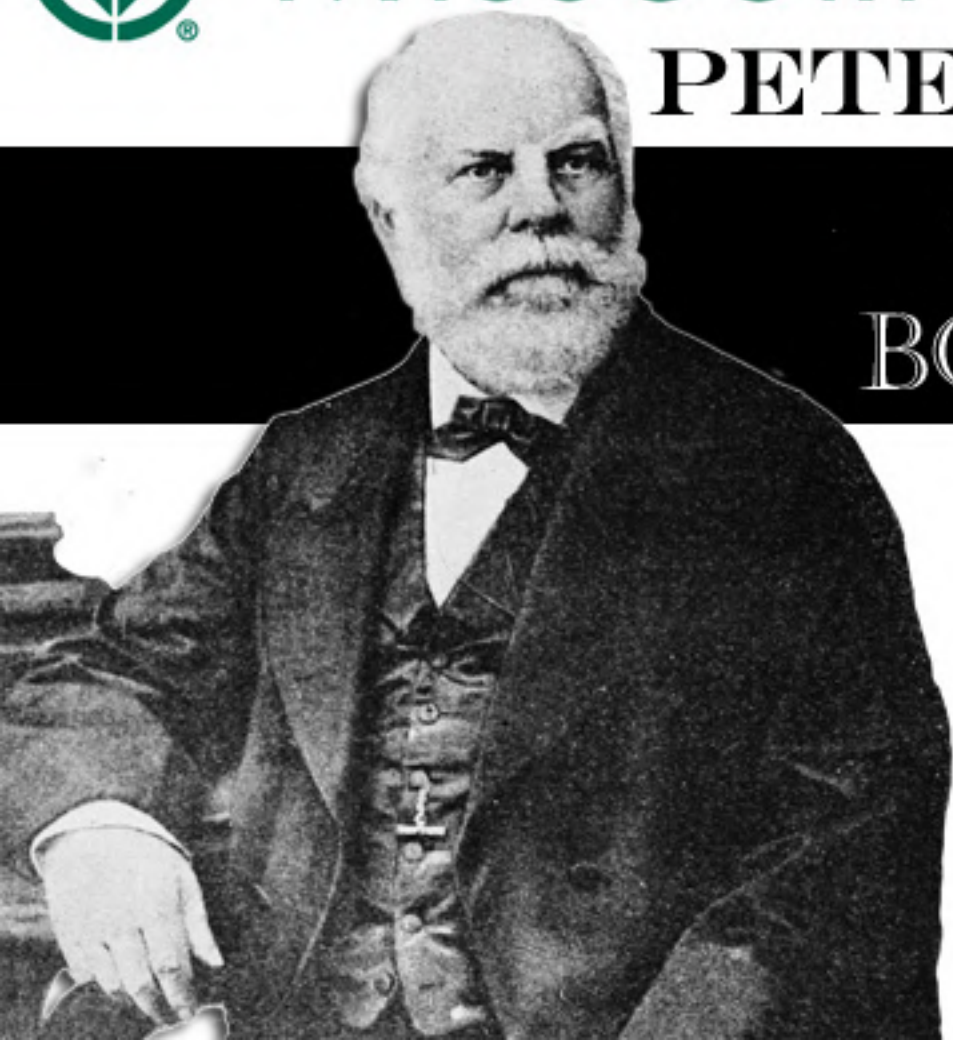


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BOTANICAL NOTEBOOKS



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Aug 31 1875

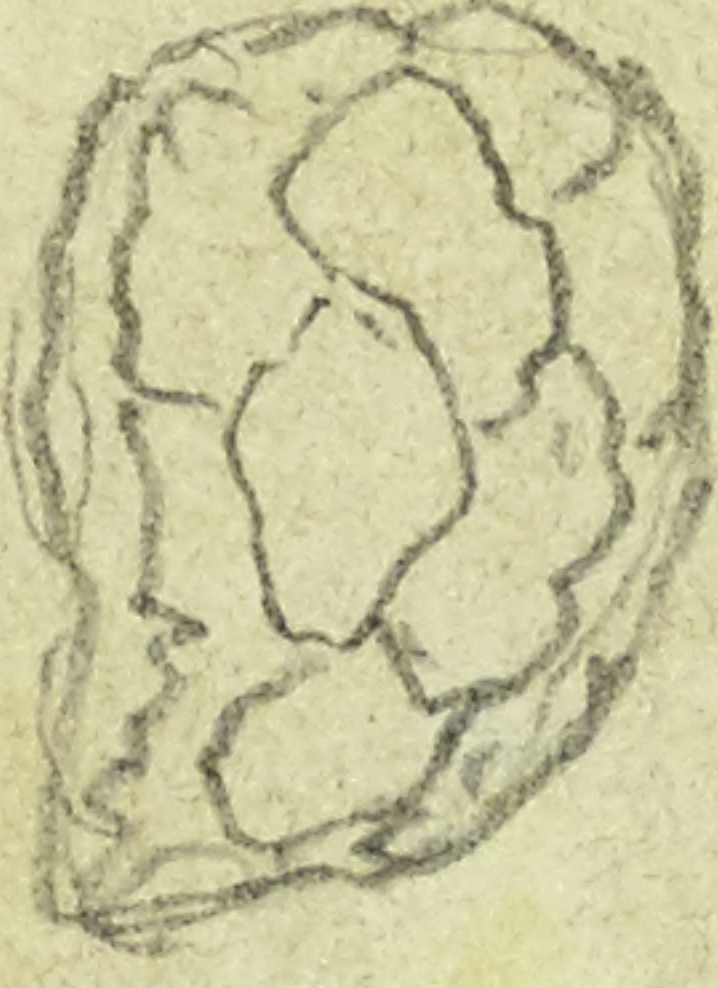
Erythraea

G.E

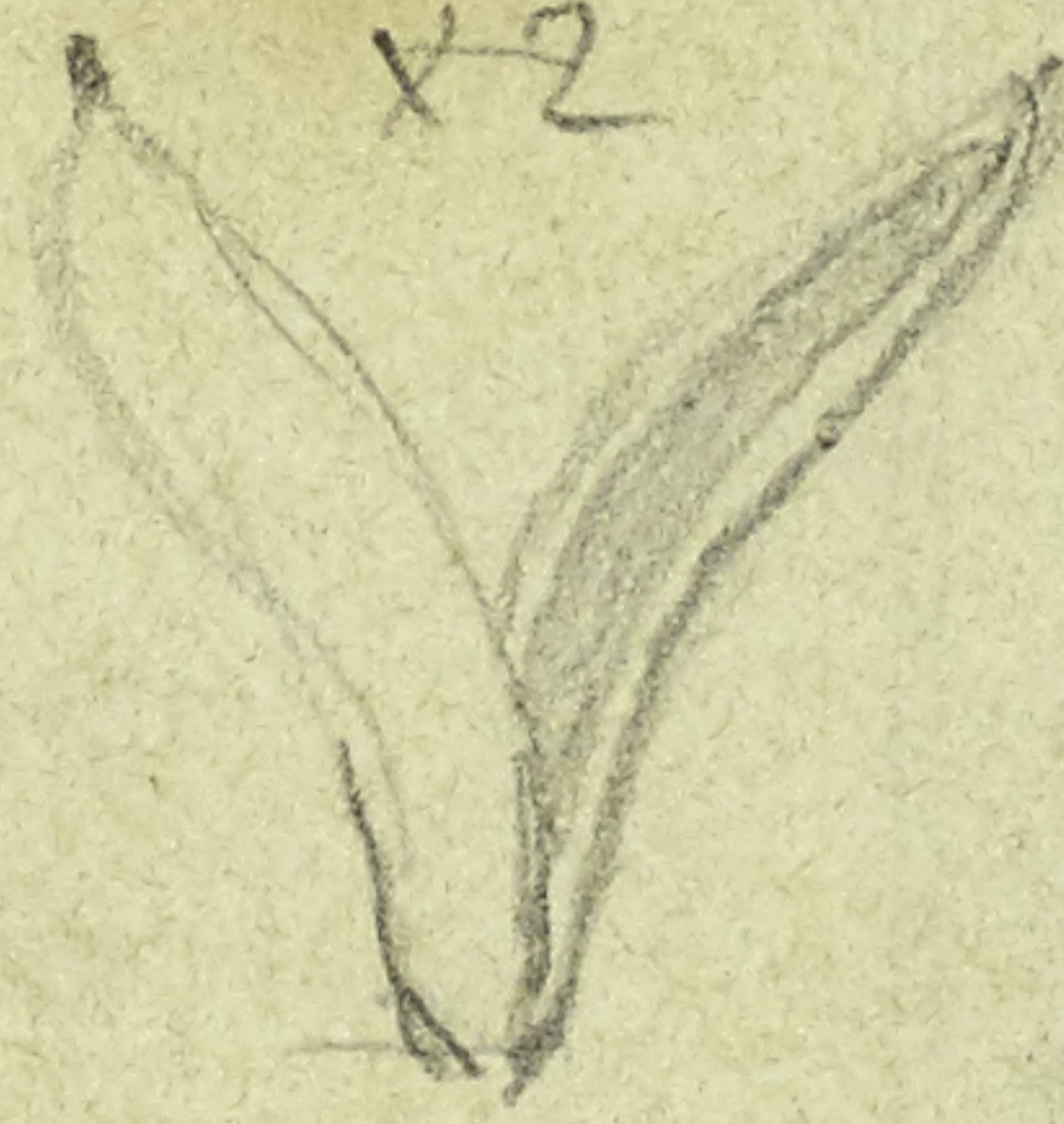
Alex Insoulana

Nov 3^d 1868

ripe seeds x60



$$\frac{17-21}{60} = 0,3-0,35 \text{ mm}$$



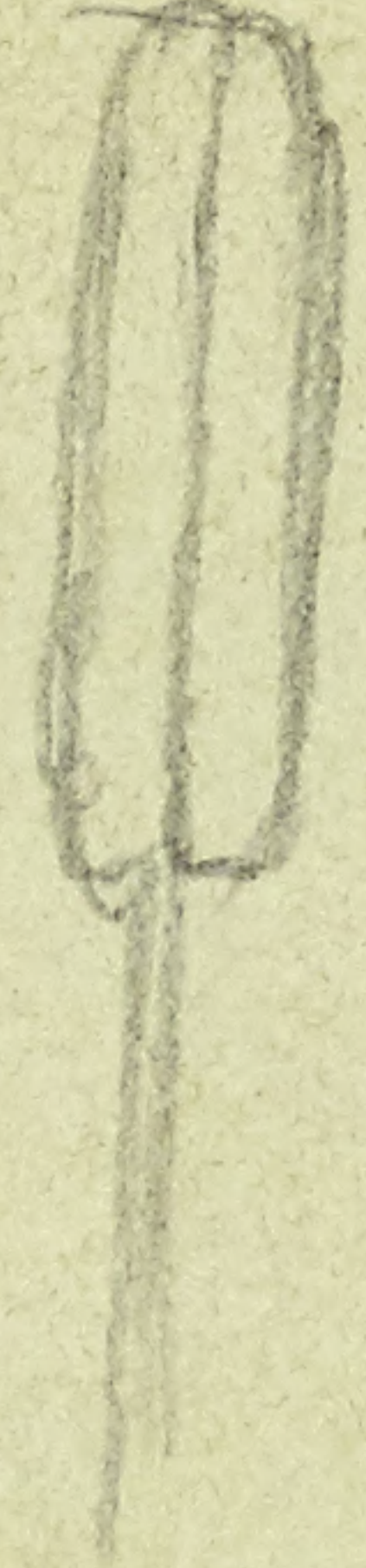
x150



x2



x10



style bifid



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

R. C. HARRISON,

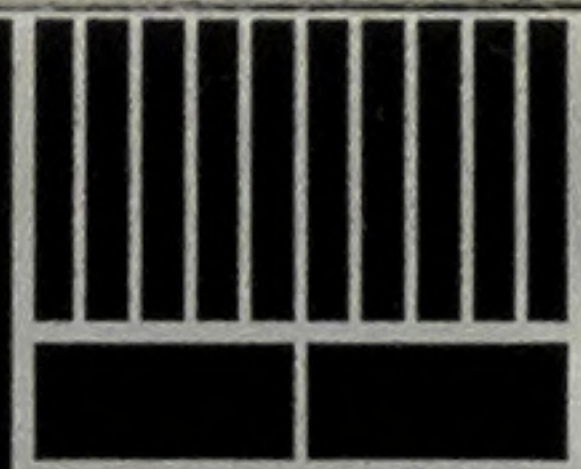
508 Leffingwell Avenue,

Druggist & Apothecary

3901

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

G. F. ENGLEMAN, M.D.,
3003 LOCUST STREET.



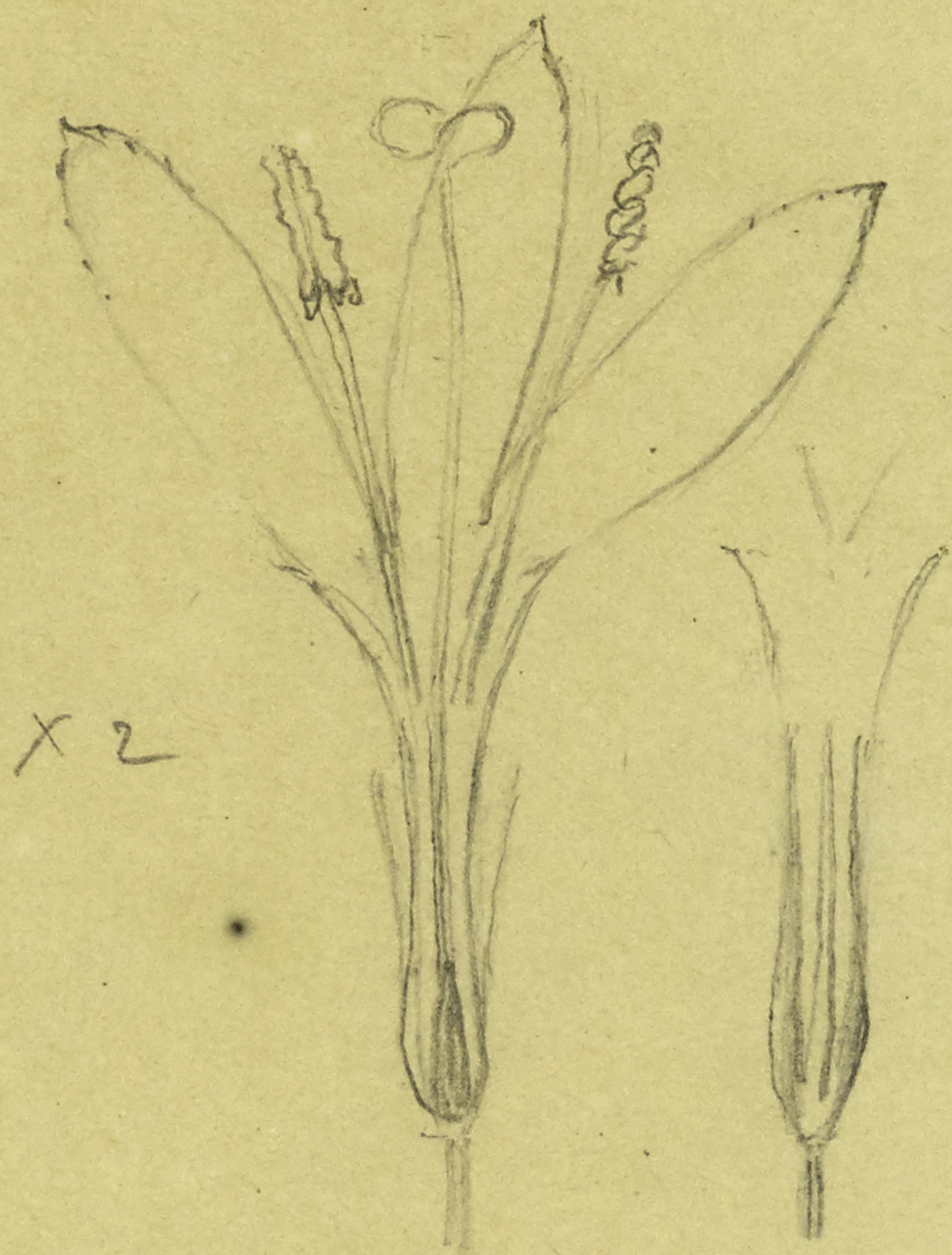
0 1 2 3 4 5 6 7 8 9 10

cm

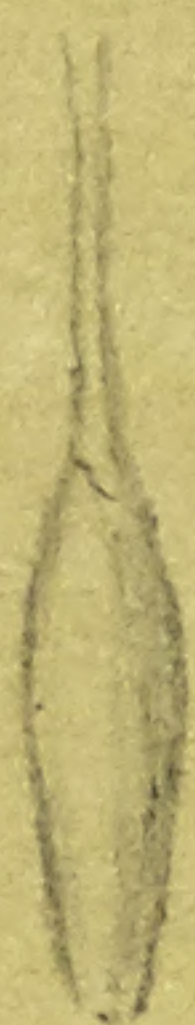
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BOTANICAL
GARDEN



x2

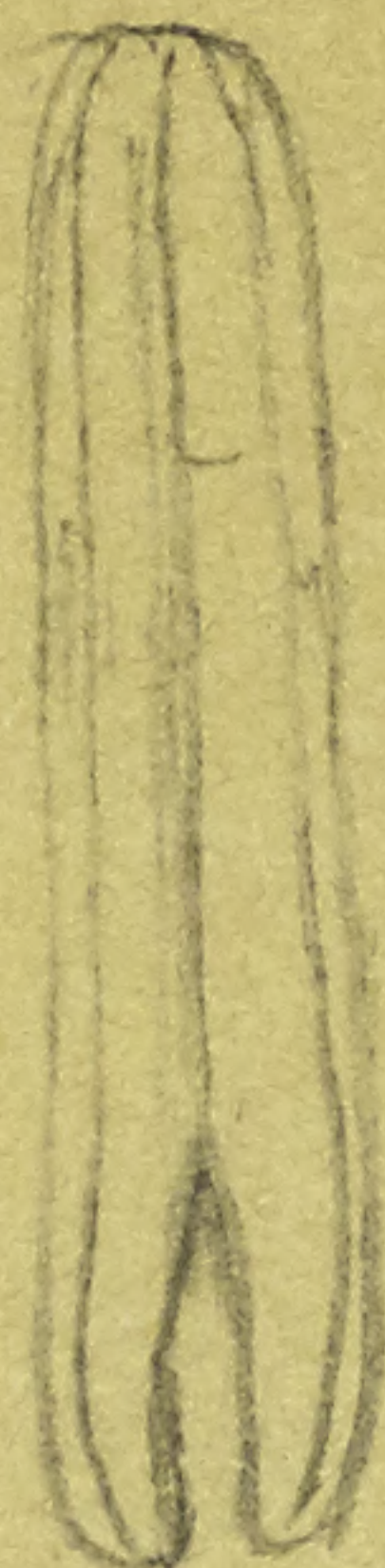
lobes oblong,
crepidatisstyle as long as lobes of corolla
at least after elongation

x2

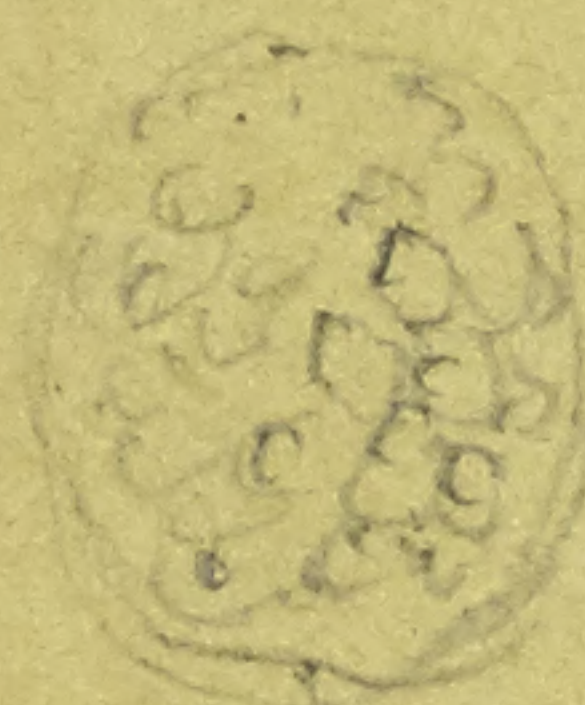
gynoecium
just after flowering

anther of bud

x10

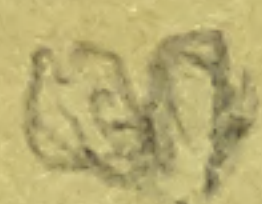
anther of young bud
dehiscence internal, ventral

x60

ovule
just after
fertilization

immature seed

x30



fruit



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

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GARDEN

HENRY EHRHARDT,
PHARMACEUTICAL CHEMIST,

No. 301 South Fifth Street, Cor. Myrtle, ST. LOUIS.

No.

Date

187

Rx

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GEORGE ENGELMANN PAPERS

3902



0

1

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6

7

8

9

10

cm

copyright reserved



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GARDEN

Erythronium chilensis ?
Chiapas, Guatemala

May 14 1875

Fls. tetramerous!

x2

x10

x10

x2

x30

seed 0.22 mm

anther 1 mm

stipe 0.8 mm

Tube a little longer
than corolla lobes

3.5 : 4.5 mm

fl. = 8 mm long

Calyx as long or a little
longer than tube

x60

1875

Date

No.

ST. LOUIS, MO.

MISSOURI BOTANICAL GARDEN

NO. 3002 CHAS. DAVIS

TEXTILE & WEAVER

1875
27



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

D. Schroeder,
PHARMACEUTIST,

No. 3005 Olive Street,

Near Garrison Avenue,

ST. LOUIS, MO.

No.

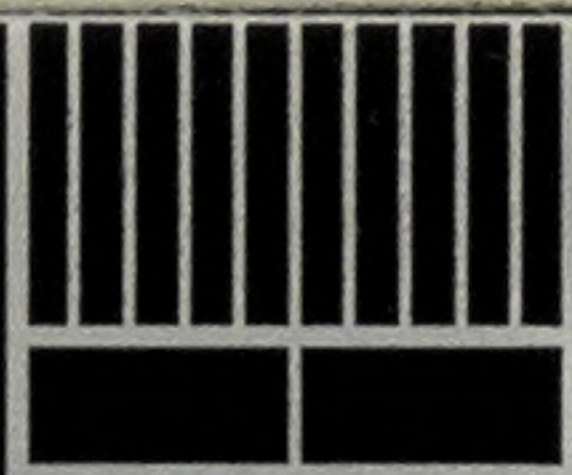
Date,

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3903.



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cm

copyright reserved



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GARDEN

Erythraea chilensis

Aug 31 1875

1855 Valdivia, C. Ophsenius - HB Bremen 1

x60

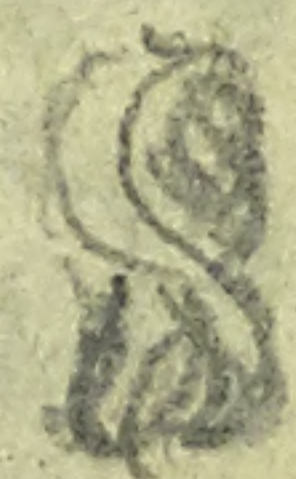


= 0,45 mm

x2



x2

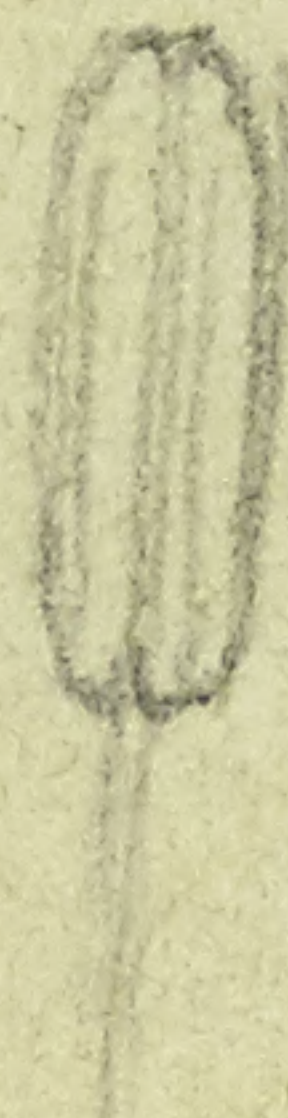


anther
x10

x450



x10



calyx lobes alato-carinati

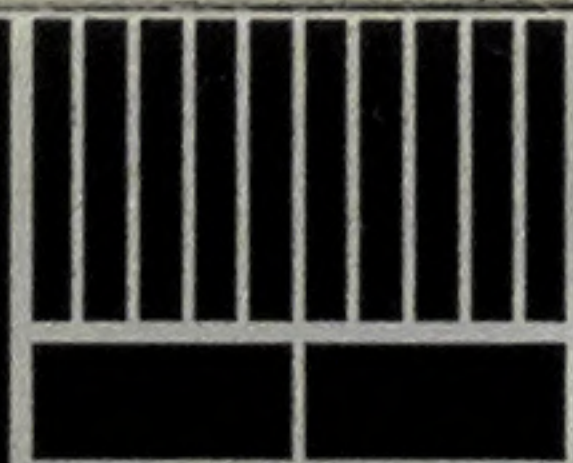
x10



stigma

x30

stigma
spatulate emarginate



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



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R. C. HARRISON,

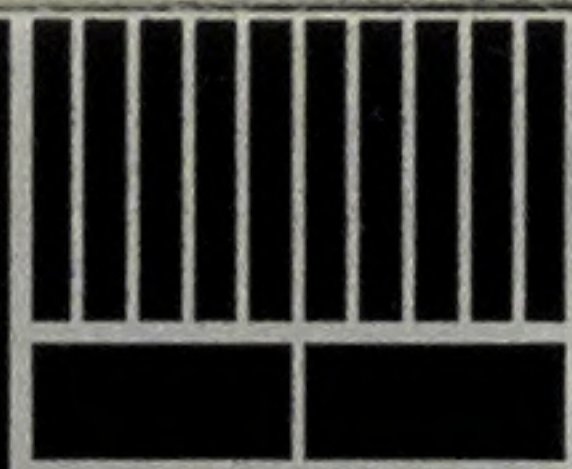
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3904

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0

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cm

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GARDEN

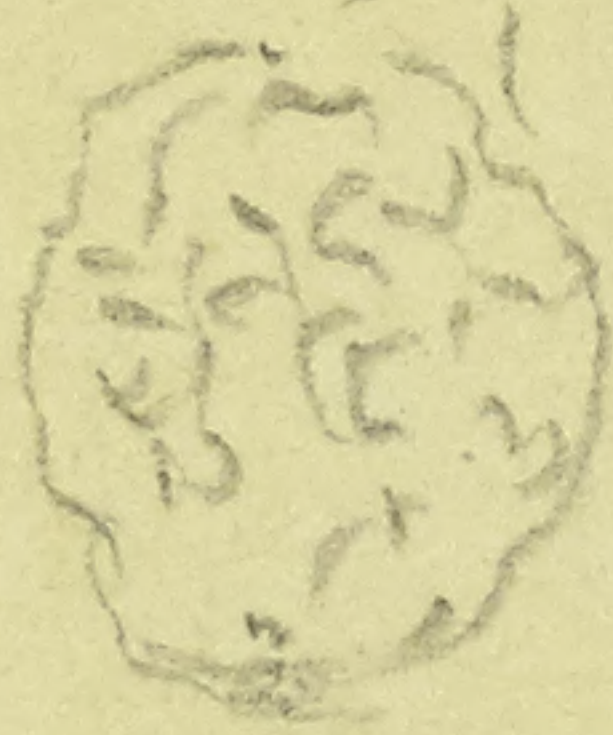
Erythronium maritimum
Italy

May 10 1875

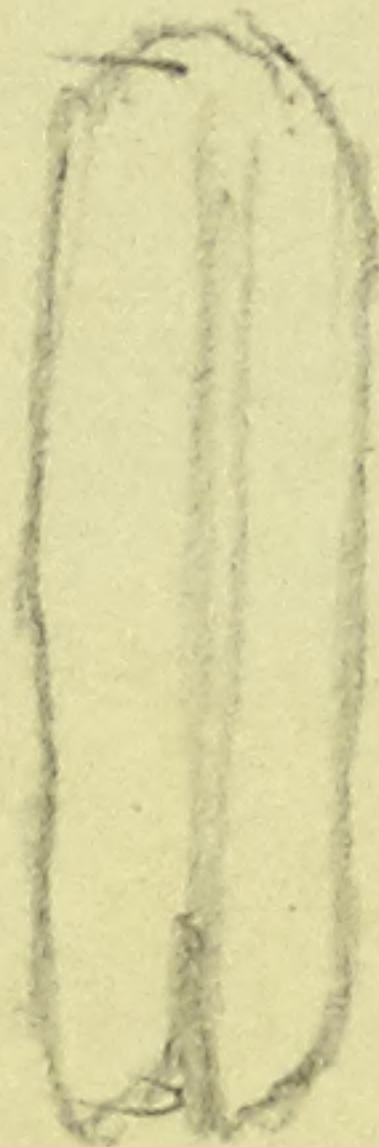
immature

x76

0.4 mm



x10



stigmatic

ligule

oblong, l. mar.



calyx shorter or longer
than tube, tube slightly funnel-shaped
lobes outer acute

Date

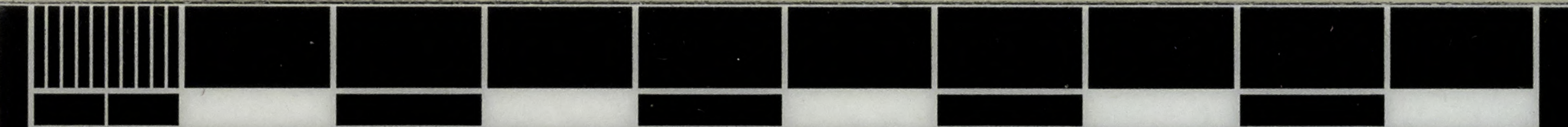
No.

HERBARIUM

NO. 3002 ONO 211004

HERBARIUM

HERBARIUM



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

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Date,

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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

3905



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10

cm

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GARDEN

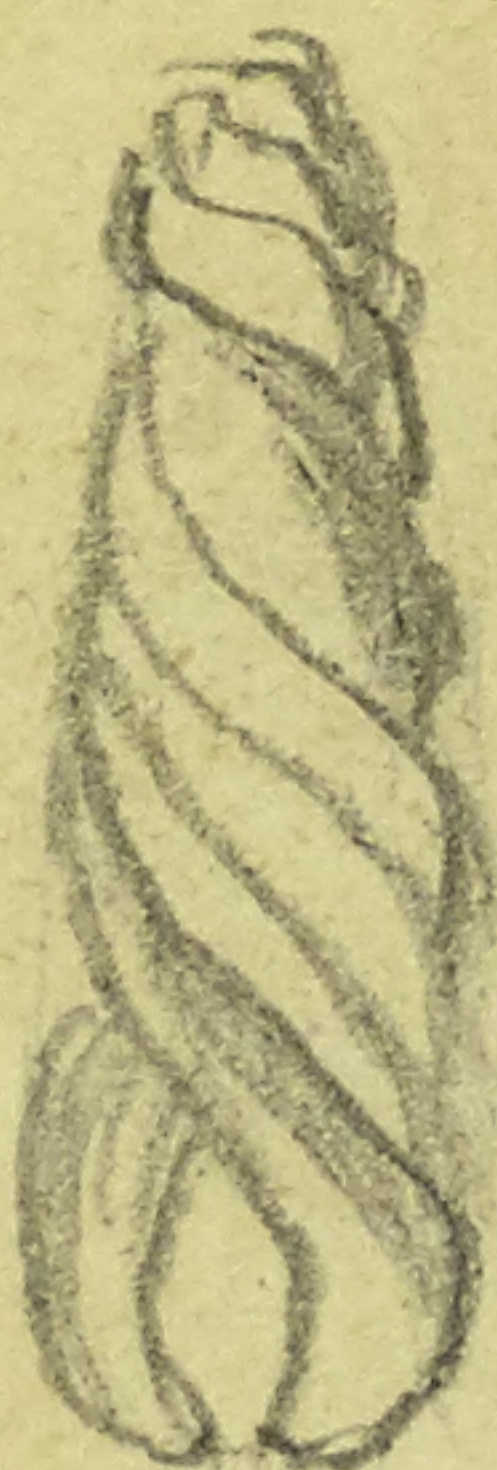
E. major Boiss.

May 14 1875

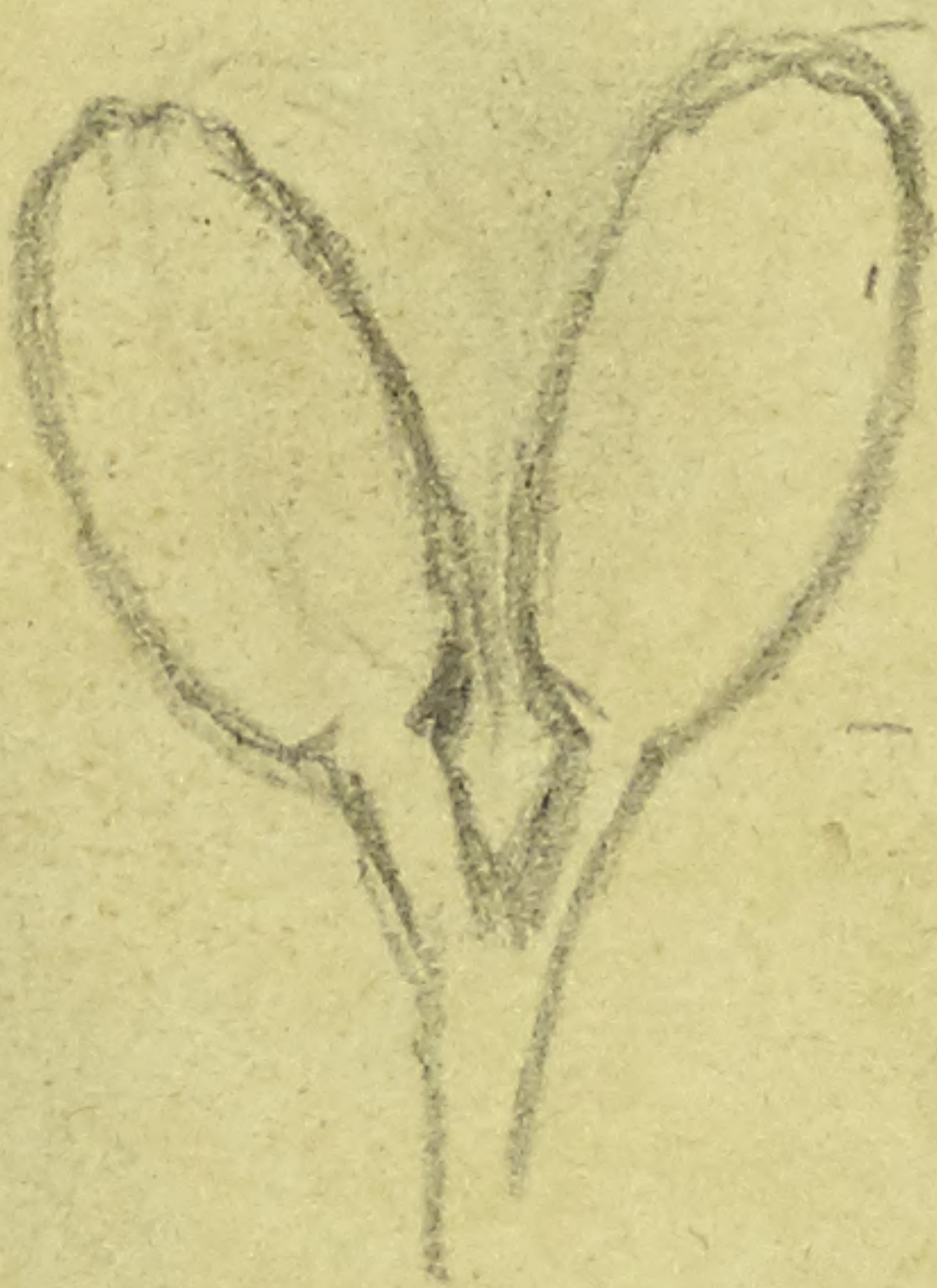
E. Centaurea - *major* Griseb.

Algarve Portugal, Griseb. det

x10



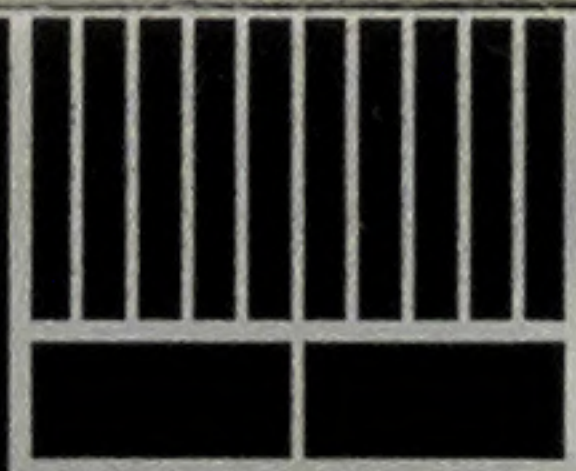
x10



x2



lobes longer
than tubes



0 1 2 3 4 5 6 7 8 9 10

cm

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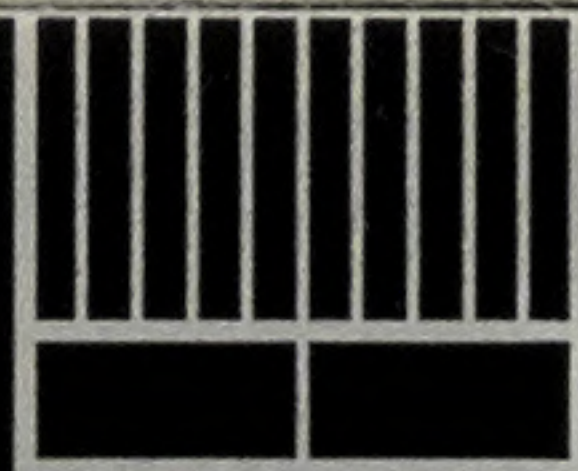
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GEORGE ENGELMANN PAPERS

3906



0 1 2 3 4 5 6 7 8 9 10

cm

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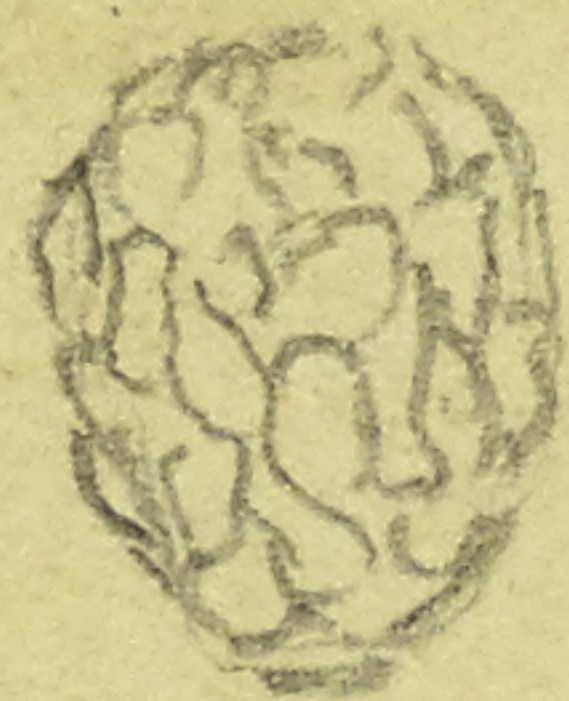
MISSOURI
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GARDEN

Erythraea spiranti
France

May 10 1875

x 30

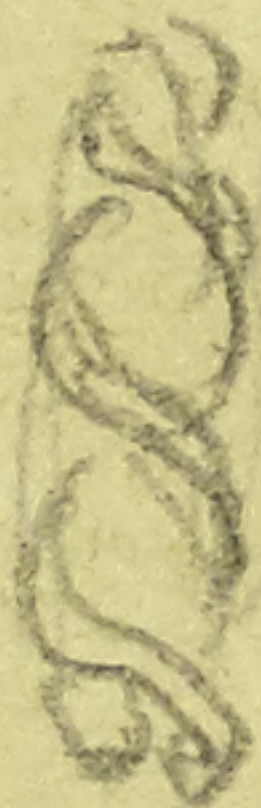
0.4 mm



x 10



2 mm



x 10



x 2



Three female shape slightly different

187

Date

No.

OM. 21012. 13

NO. 2002 OM. 2002. 0K

HERBARIUM

MISSOURI BOTANICAL GARDEN



0 1 2 3 4 5 6 7 8 9 10

cm

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3907

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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

R



0

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9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Erythraea spicata

Sept 1 1875

x 30



x 10



stigma 0.7 mm wide, 0.5 high



0 1 2 3 4 5 6 7 8 9 10

cm

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508 Leffingwell Avenue,

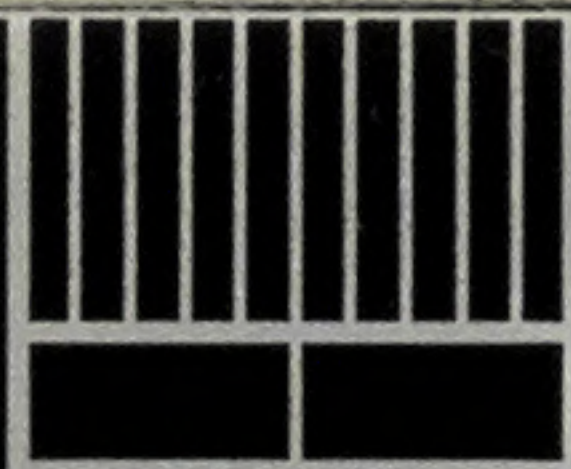
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3908

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G. F. ENGLEMAN, M.D.,

3003 LOCUST STREET.



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cm

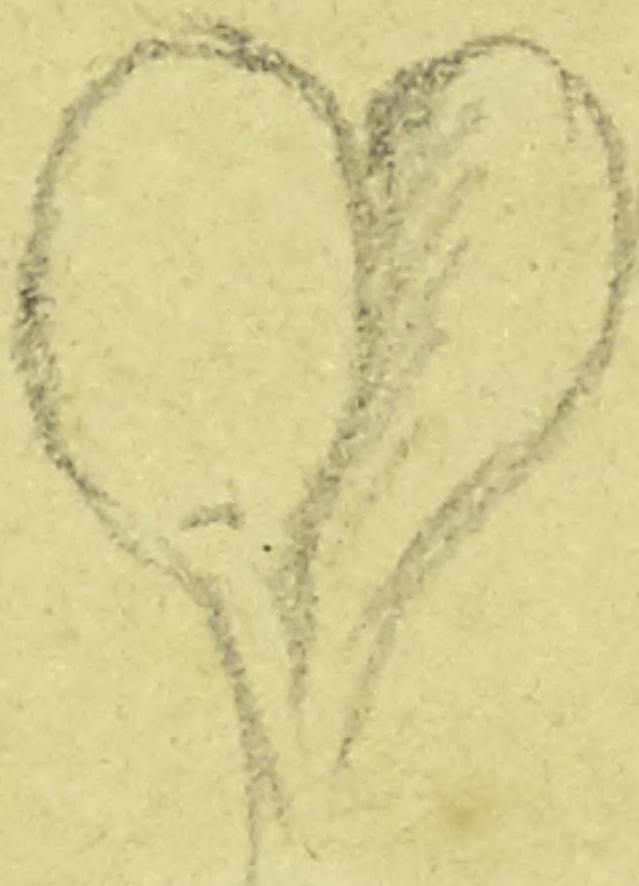
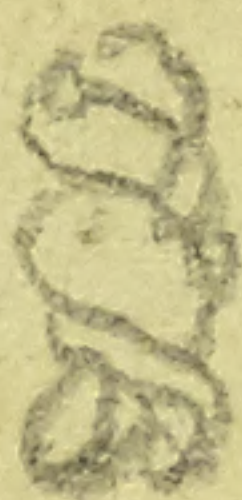
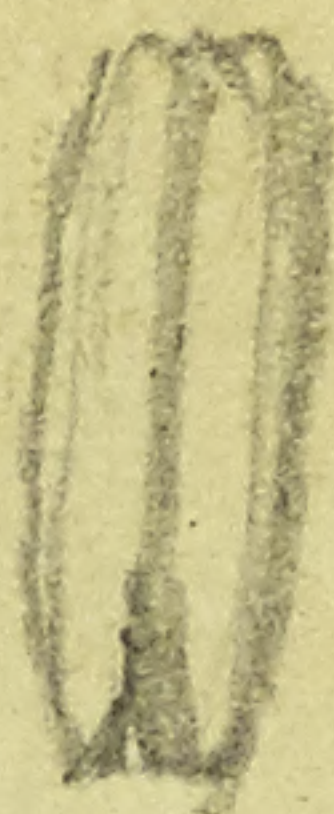
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GARDEN

"*Crythraea lobifolia*" ps. *teniflora* May 14 1875
Spain.

Grisolens de



five
funnel-shaped

fl. sessile

Date

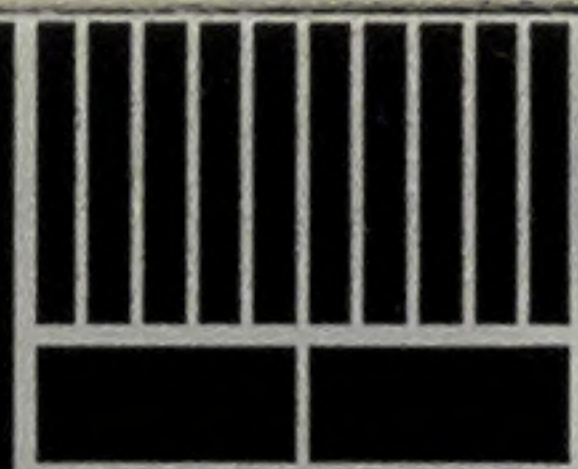
1875

Herb. Griseb. 1875

MISSOURI BOTANICAL GARDEN

HERBARIUM

MISSOURI BOTANICAL GARDEN



0 1 2 3 4 5 6 7 8 9 10

cm

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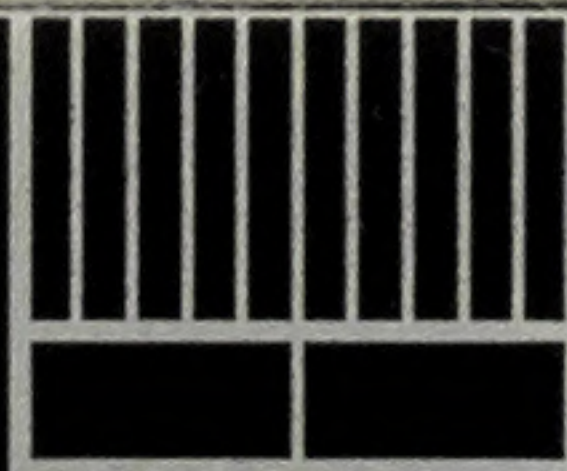
Date,

187

R

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3909



0 1 2 3 4 5 6 7 8 9 10

cm

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E. calycifolia

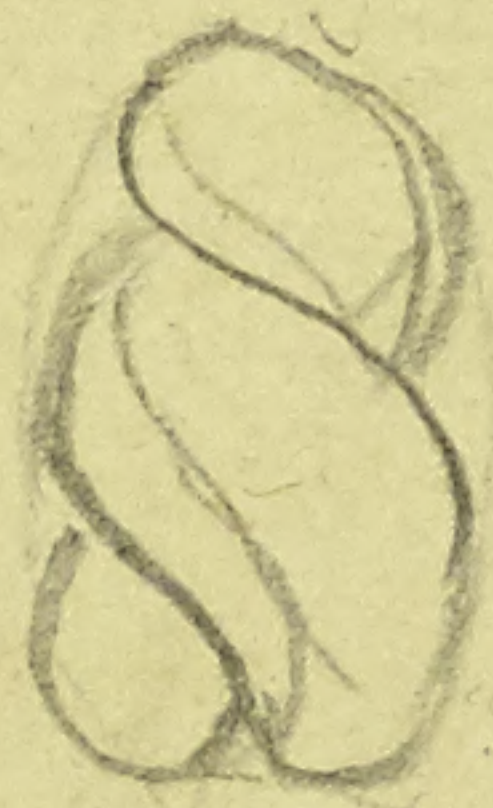
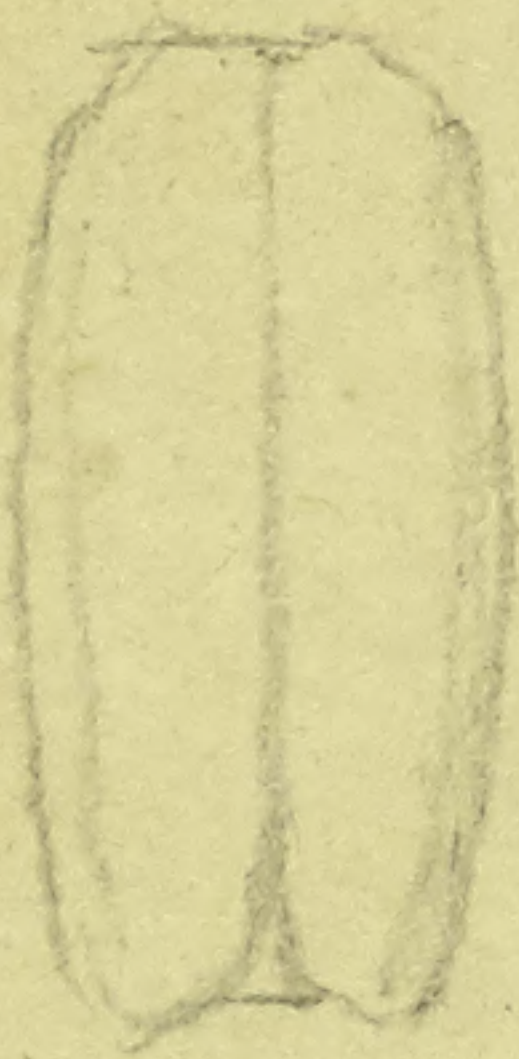
May 14 1875

France

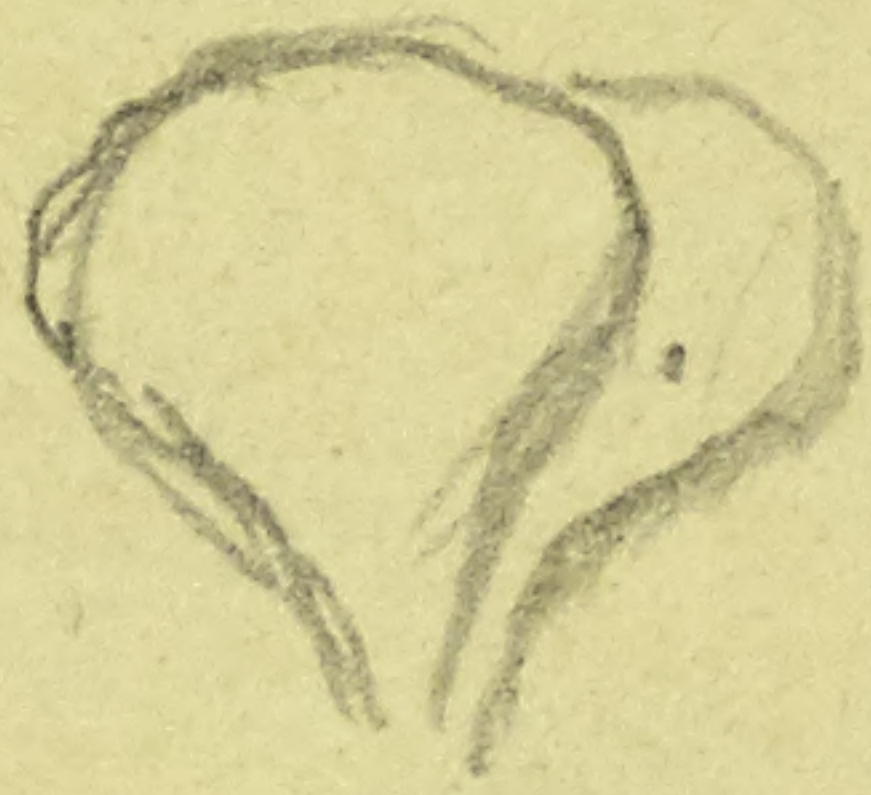
x 10

x 2

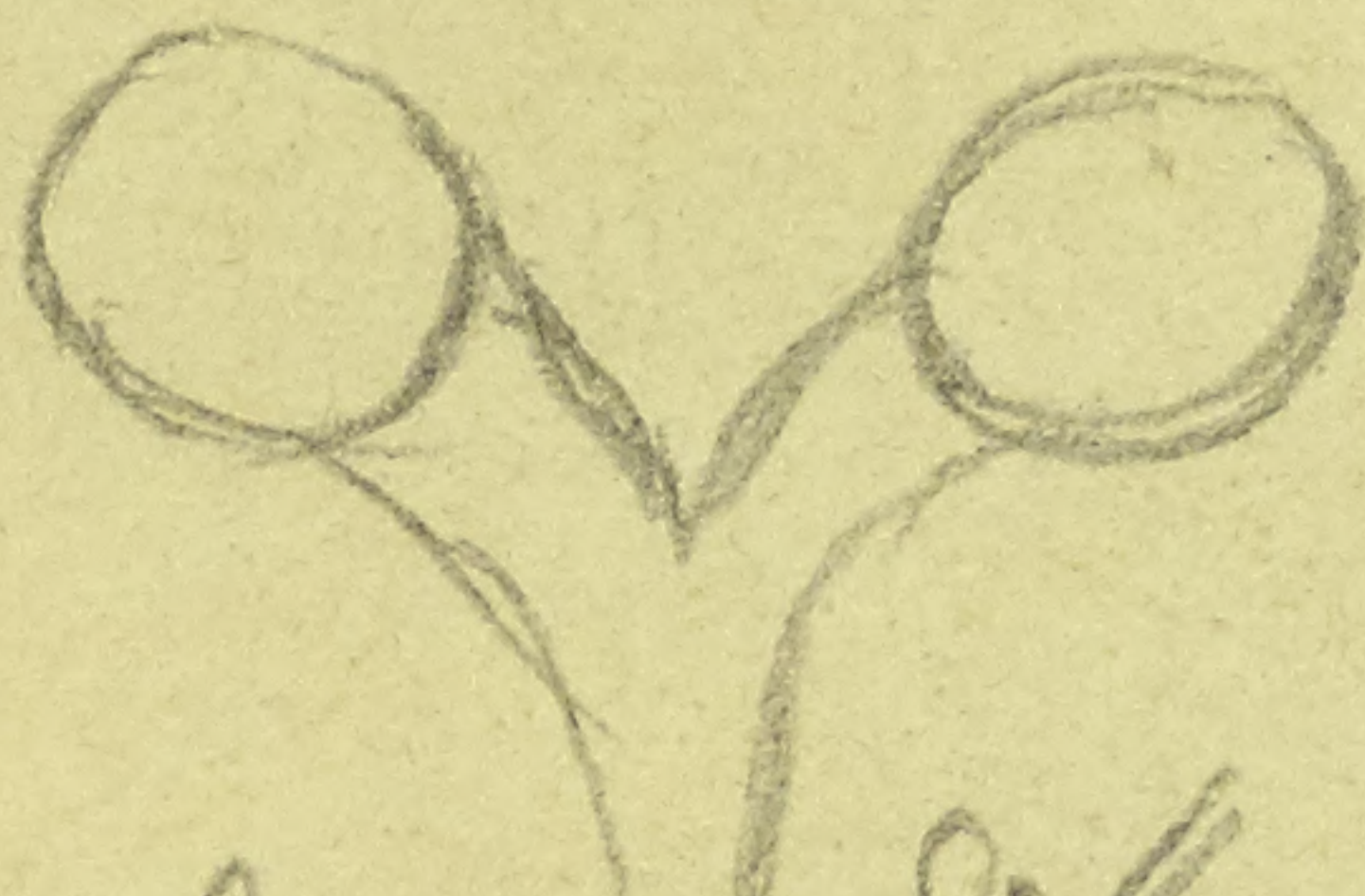
x 10



style bifido
oblongatis ovatis
stipitalis



x 10



stigma under pressure

flowers were very hard pressed

1875

Days

40

HERBARIUM

MISSOURI BOTANICAL GARDEN

MISSOURI BOTANICAL GARDEN

MISSOURI BOTANICAL GARDEN



0 1 2 3 4 5 6 7 8 9 10

cm

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3910



0

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cm

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E. lasiocarpa

May 14 1875

Aster, Thunbergii

x100



x10



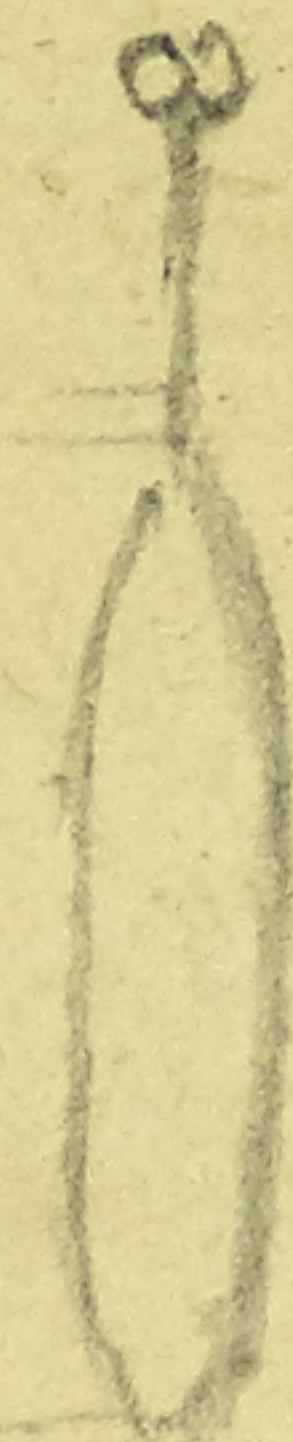
x2



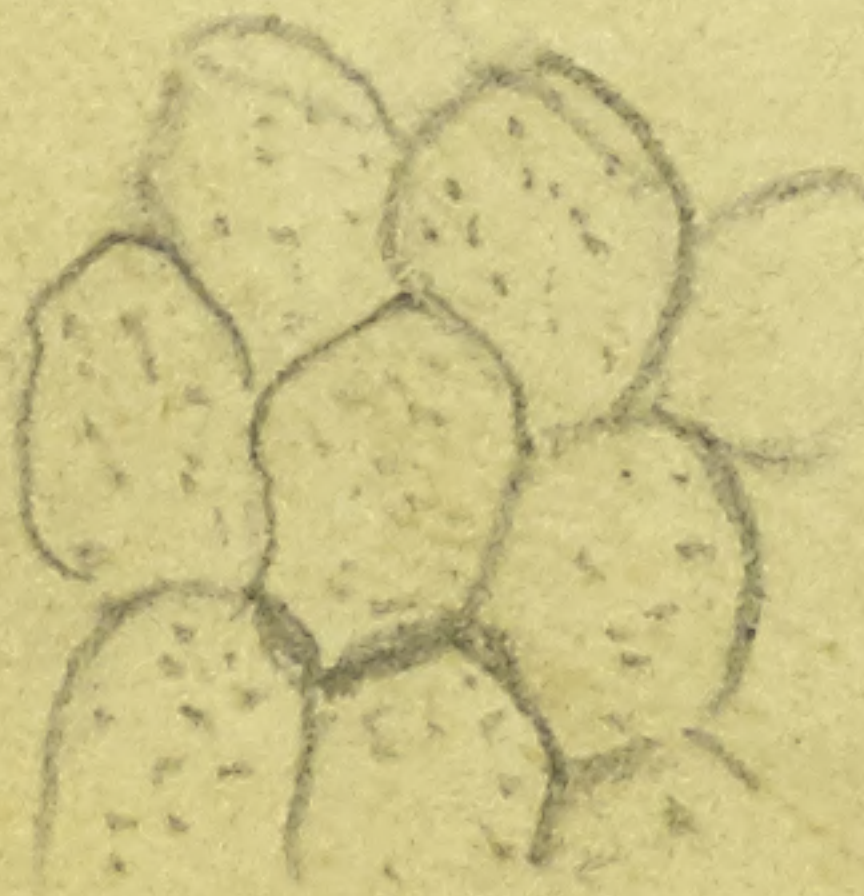
ripe seed
x30



0.5 mm



x60



seed reticulate
ridges sharp
area finely punctate



0

1

2

3

4

5

6

7

8

9

10

cm

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GEORGE ENGELMANN PAPERS

3911



0

1

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8

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10

cm

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Erythron chloodes

May 14 1875

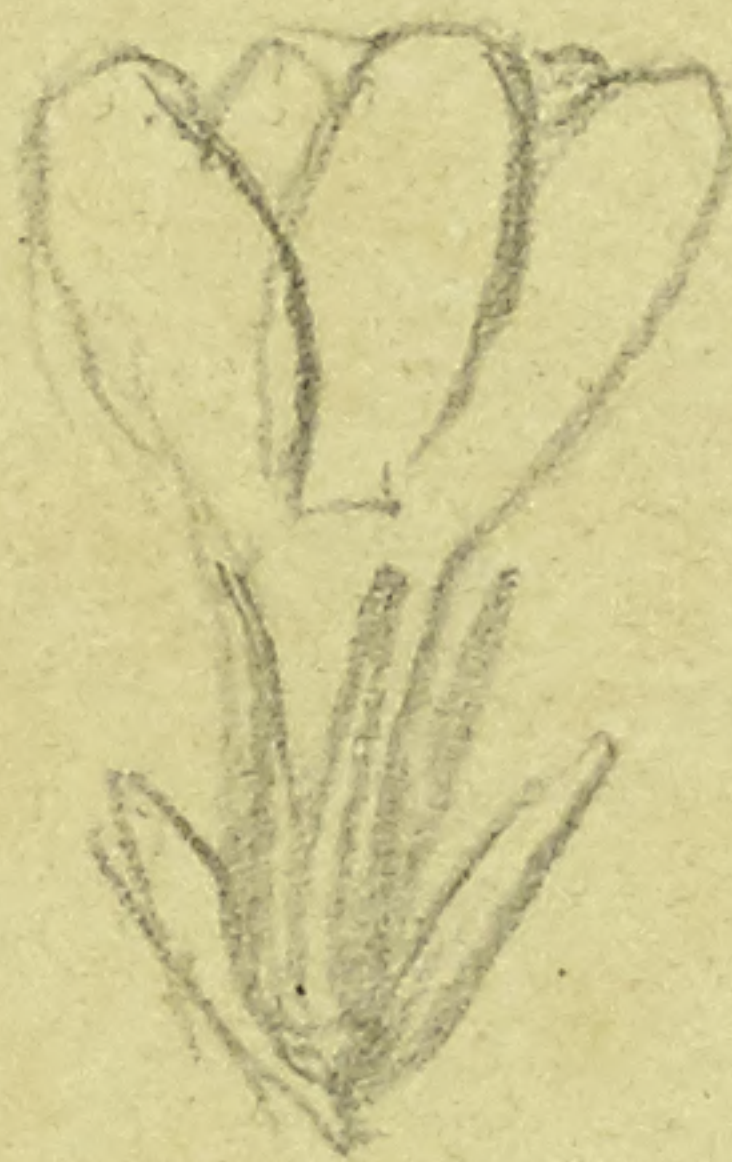
France

= *crasigolii* *β. humilis*

x10

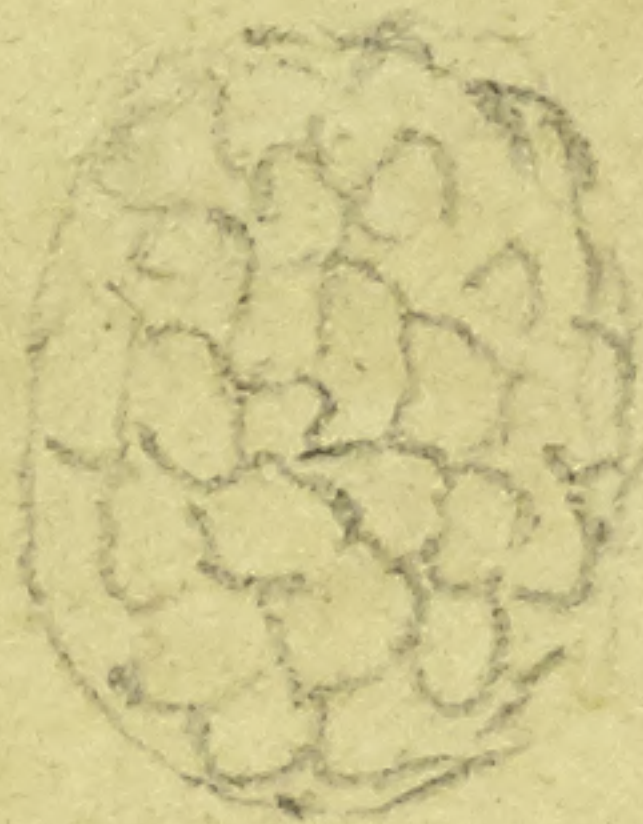


x10

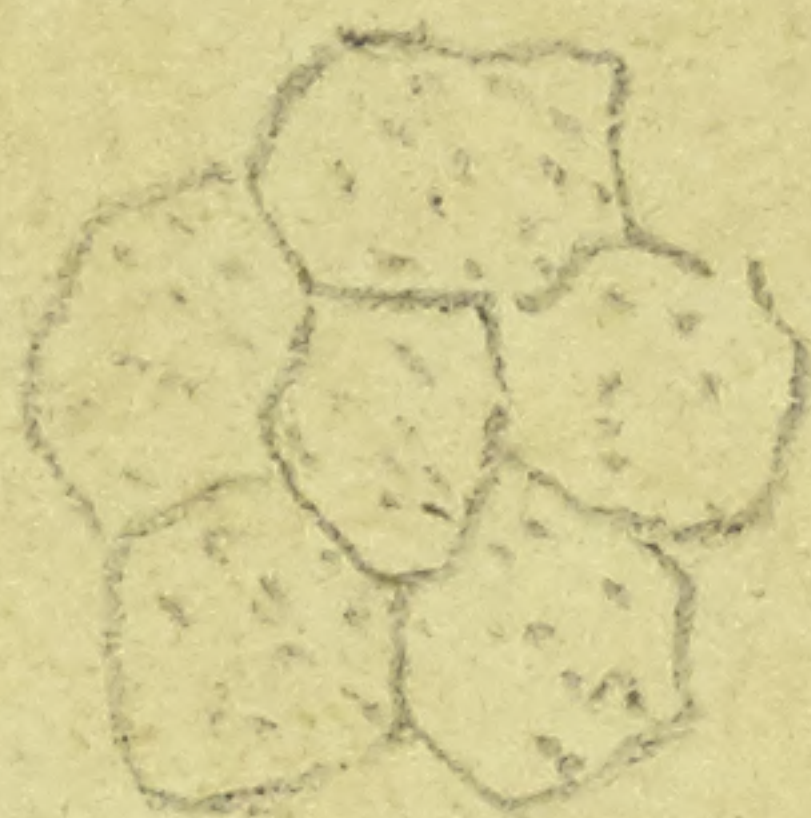


ripe seed

x30



x60



0

1

2

3

4

5

6

7

8

9

10

cm

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3912



0 1 2 3 4 5 6 7 8 9 10

cm

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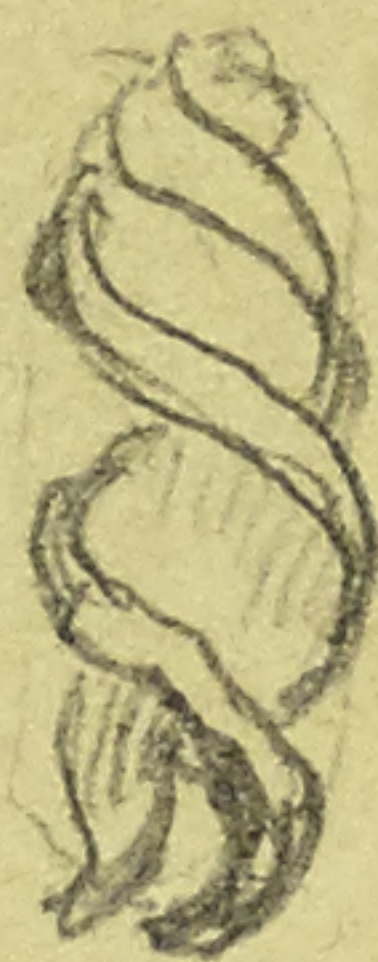
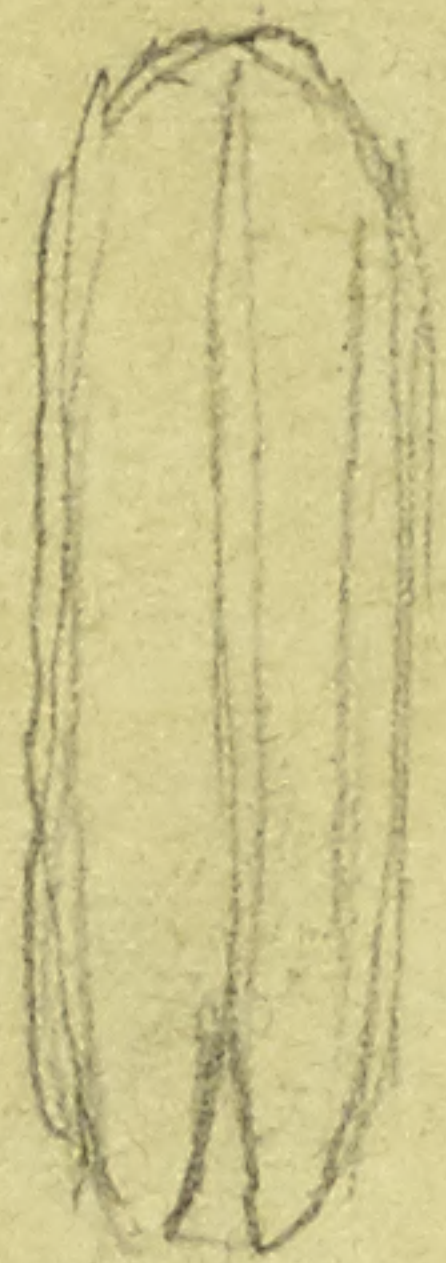


MISSOURI
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Erythraea Centaurea -
Europe 1

May 10 1875

x 10

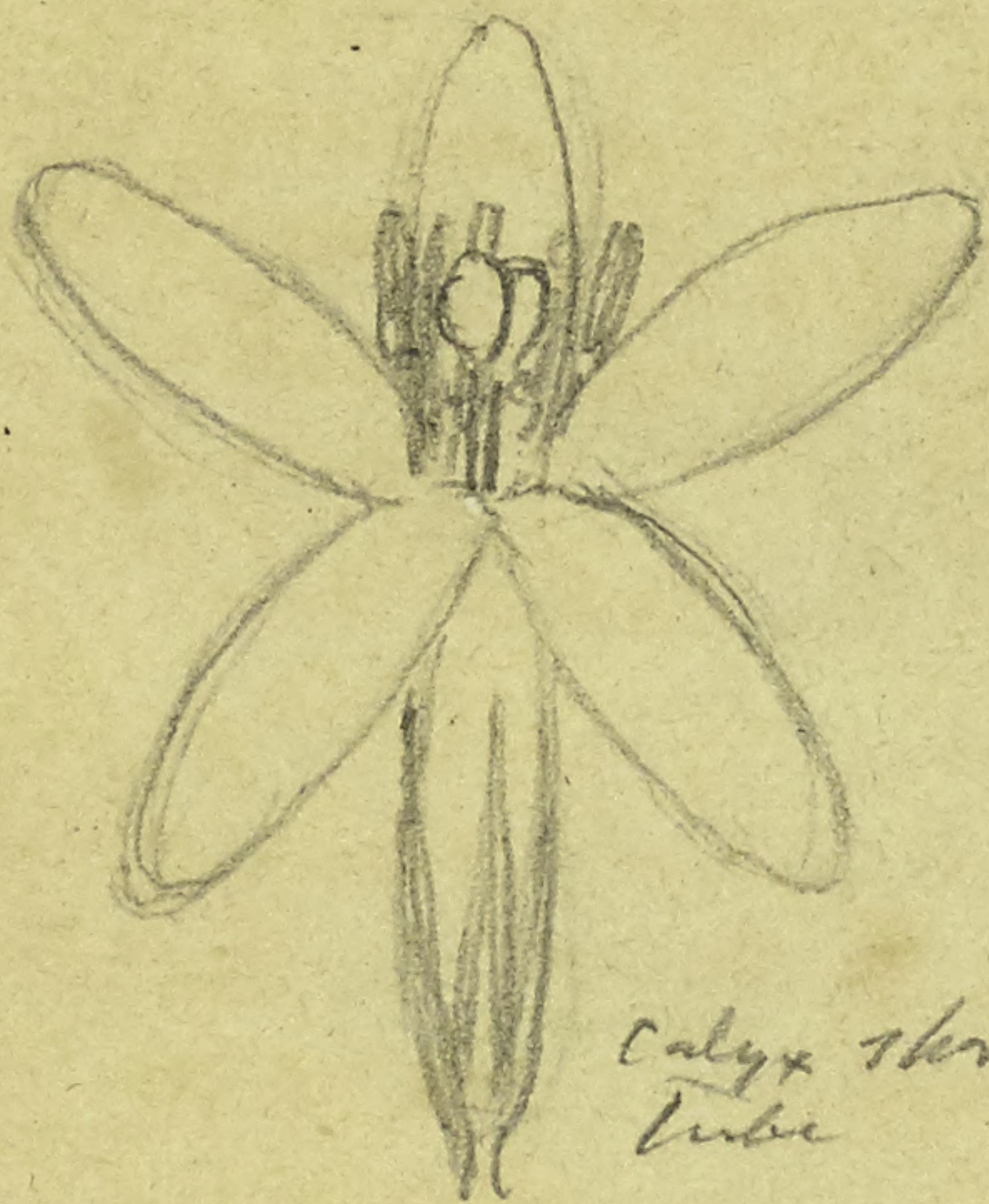


x 10



Stigma bilobed
lobes oval

x 2

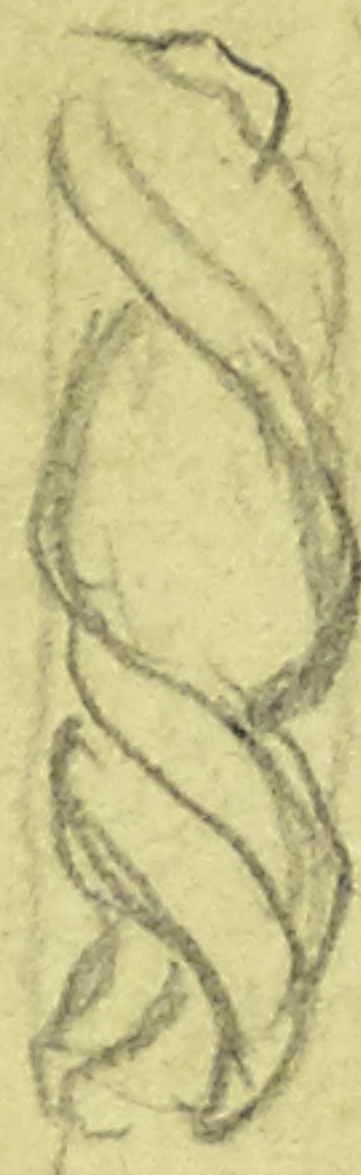


Calyx shorter than
tube

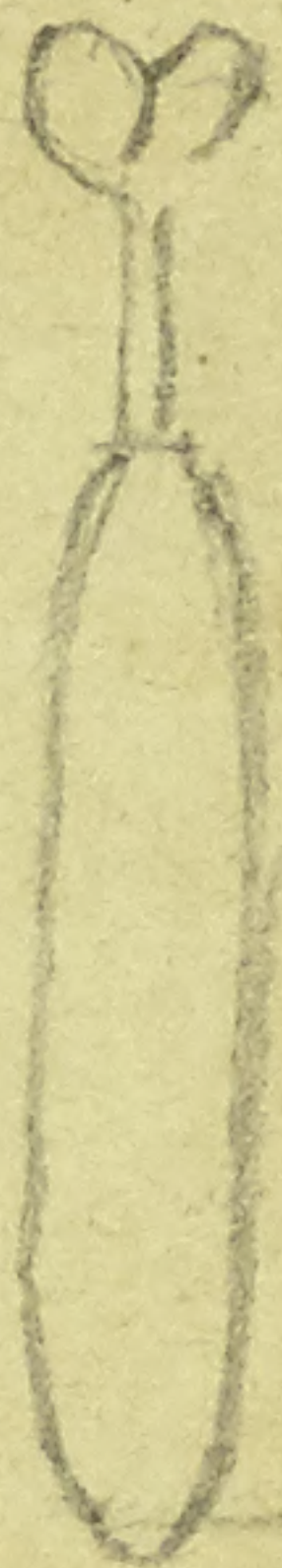
fl. subsessile
tube cylindric longer than
lobes, much longer than calyx

Fontainebleau 1857

x 10

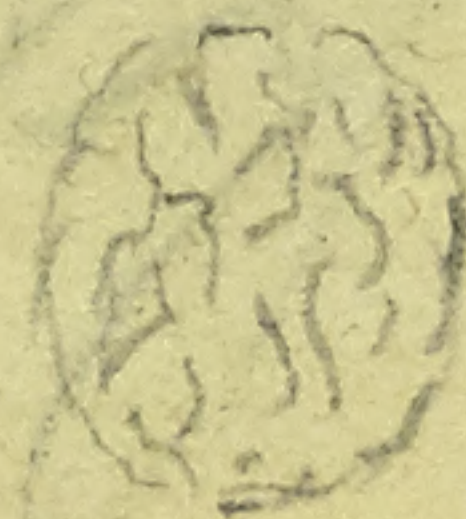


x 2



anther 2.2 mm

Fontainebleau 1824



x 30

seed 0.3 mm

immature



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

3913



0

1

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6

7

8

9

10

cm

copyright reserved



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GARDEN

Oct 19 1876
Cabrera

x 10



x 10



x 2



Erythraea pulchella

style branched!

Friest, Tommasini

135

8.45
38



0

1

2

3

4

5

6

7

8

9

10

cm

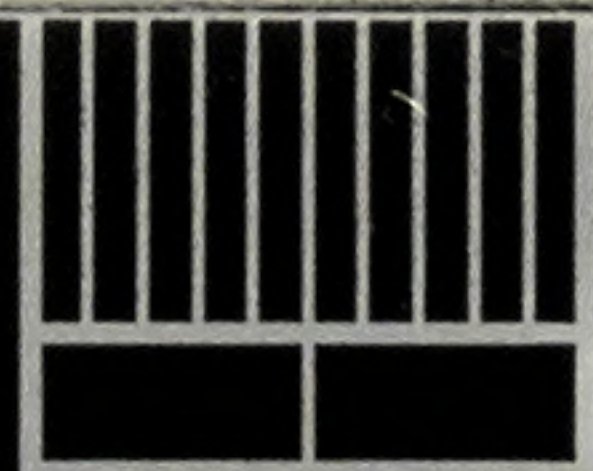
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3914

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

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10

cm

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BOTANICAL
GARDEN

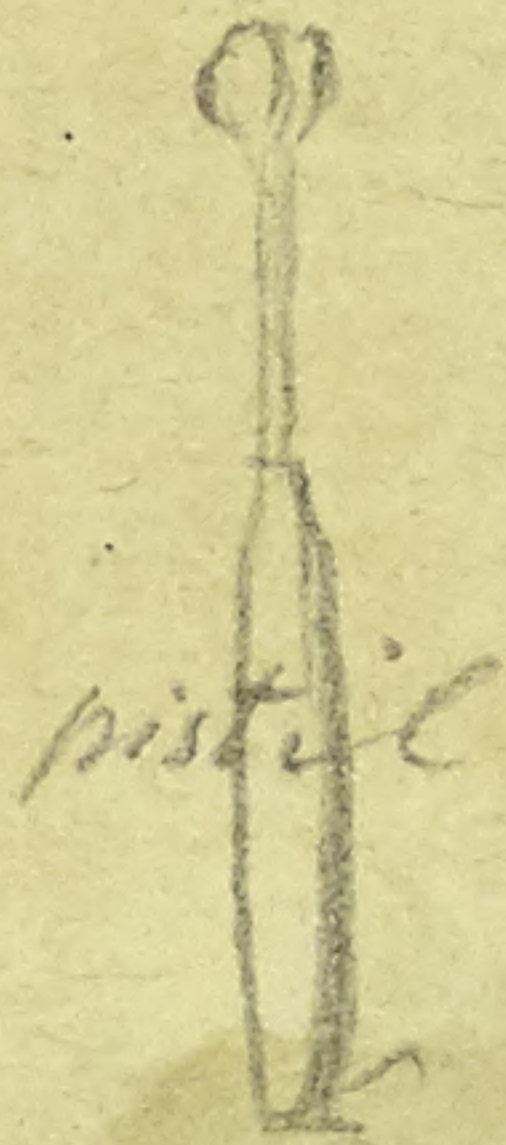
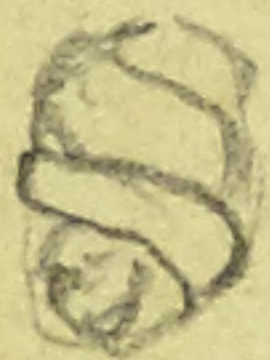
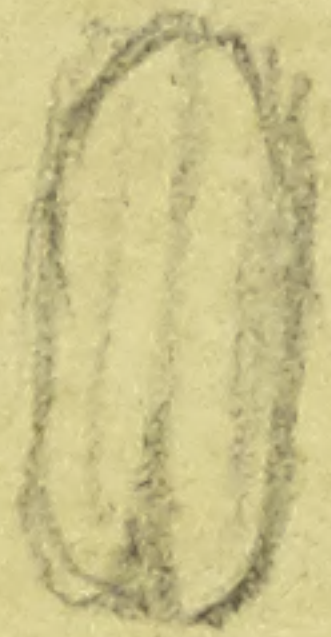
Erythraea pulchella

May 10 1875

X 2

Frankfurt 1826

X 10

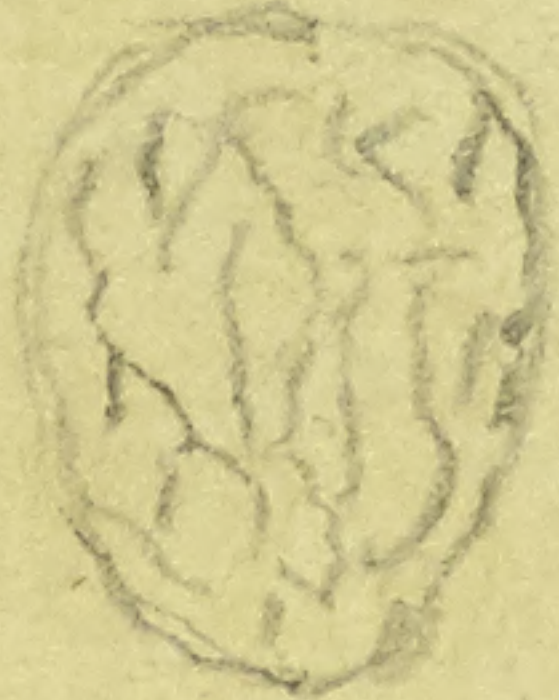


fl. subsessile or pedunculate
tube funnel-shaped upward
longer than lobes (oblong
dentisulcate)
calyx nearly as long as tube

stigma lobed
lobes oval

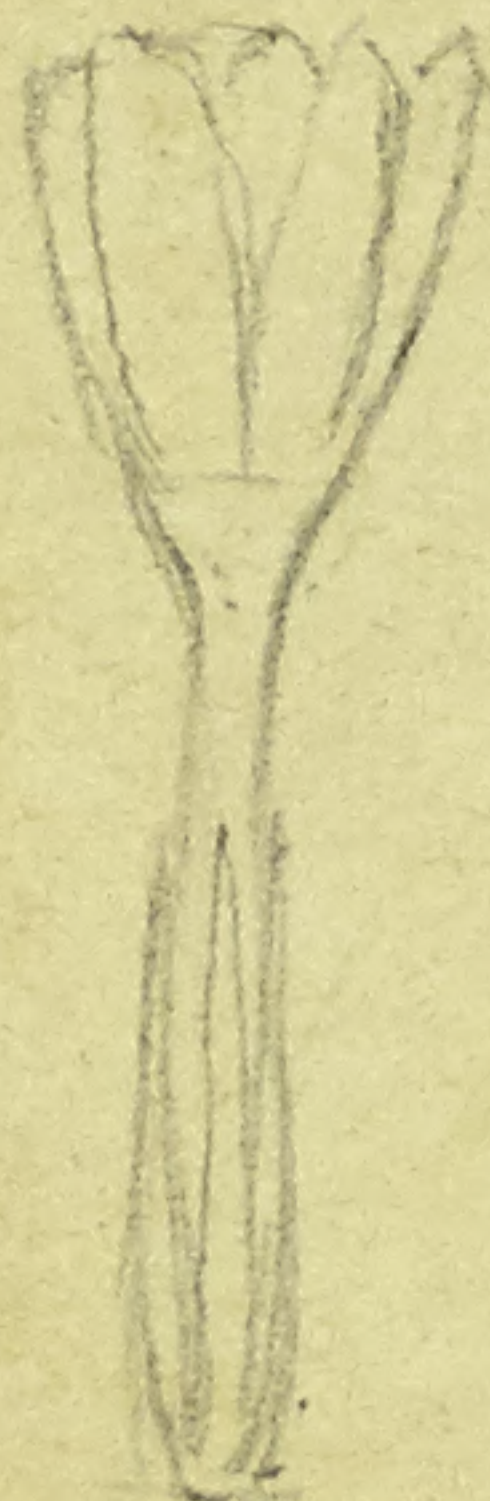
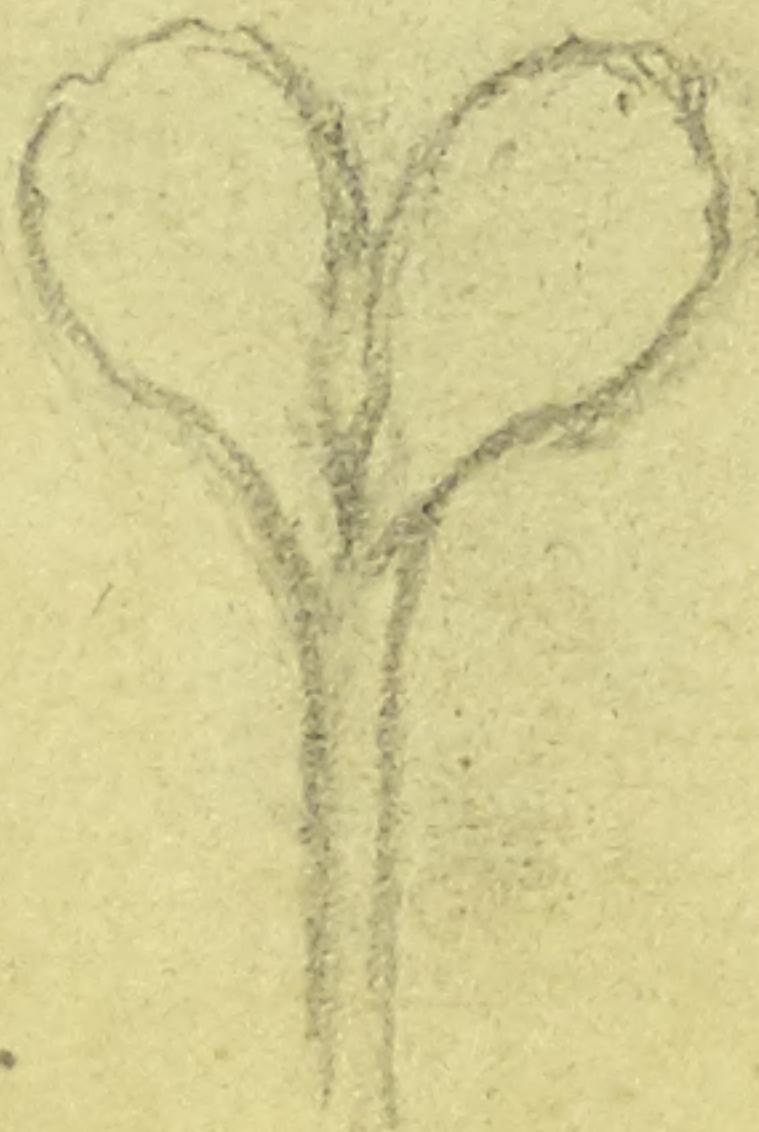
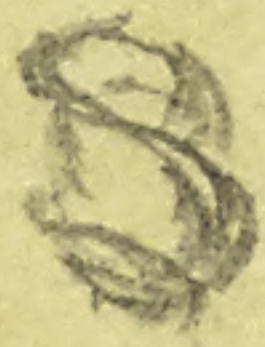
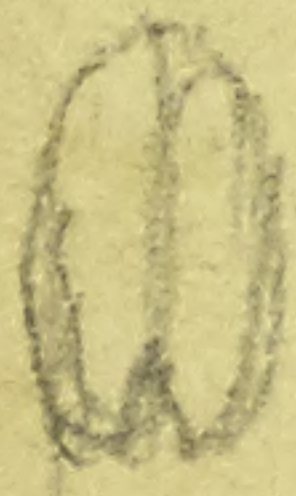
stigma reaching
up to fauce only, almost included

X 30
= 0.38 mm



seed more rugose
than reticulate

X 10



stigma reaching
to anthers, & middle of lobes

anther 0.8-1 mm

X 30
= 0.32 mm



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
BOTANICAL
GARDEN

D. Schroeder,

PHARMACEUTIST,

No. 3005 Olive Street,

Near Garrison Avenue,

ST. LOUIS, MO.

No.

Date,

187

R

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

3915



0 1 2 3 4 5 6 7 8 9 10

cm

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Elytrum australis R. Br.

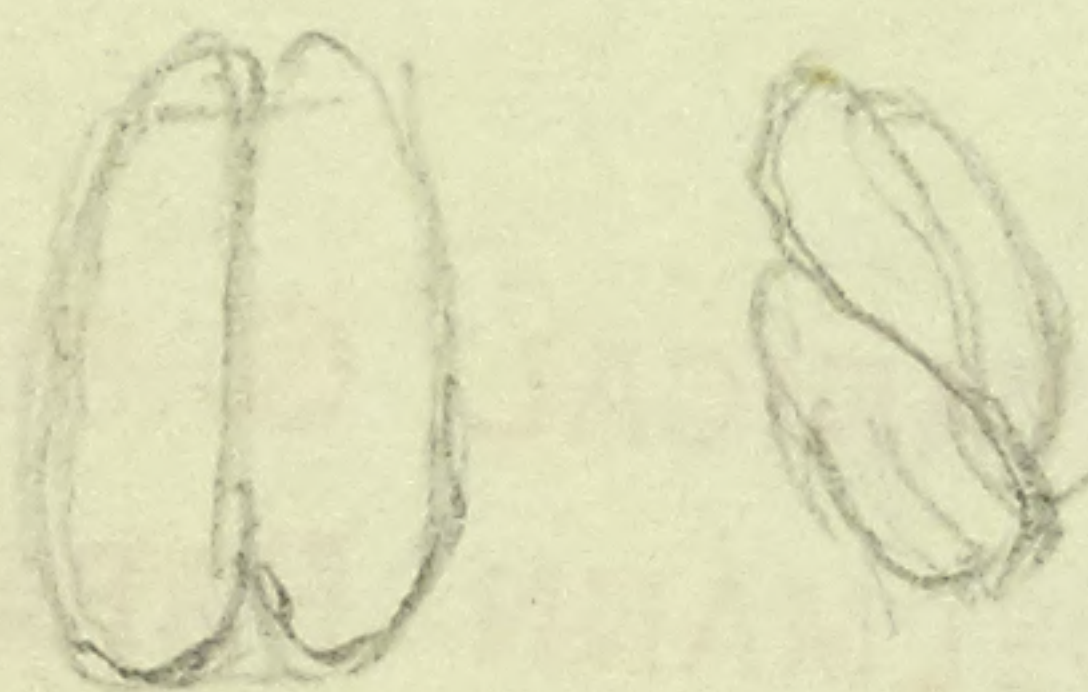
Cambridge 19 Oct 1876

Austrofelix — Sidney Wright

x10

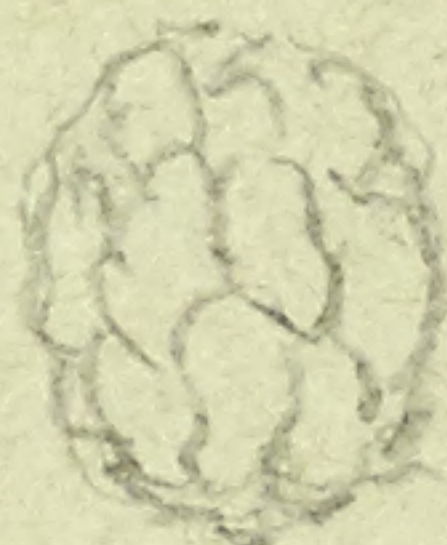


x10



seeds immature 0.3 mm

x30



stigmas broader
than long, though
not as flabellate
as in the majority
of American species



0

1

2

3

4

5

6

7

8

9

10

cm

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0

1

2

3

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9

10

cm

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